

M. Dibrino

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JUN 11 2003
TECH CENTER 1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/724,868

DATE: 06/03/2003

TIME: 08:51:40

Input Set : N:\Crf3\RULE60\09724868.raw.txt

Output Set: N:\CRF4\06032003\I724868.raw

SEQUENCE LISTING

3 (i) GENERAL INFORMATION:

5 (i) APPLICANT: Lam, Xanthe M.

6 Oeswein, James Q.

7 Ongpipattanakul, Boonsri

8 Shahrokhi, Zahra

9 Wang, Sharon X.

10 Weissburg, Robert P.

11 Wong, Rita L.

13 (ii) TITLE OF INVENTION: Antibody Formulation

15 (iii) NUMBER OF SEQUENCES: 11

17 (iv) CORRESPONDENCE ADDRESS:

18 (A) ADDRESSEE: Genentech, Inc.

19 (B) STREET: 1 DNA Way

20 (C) CITY: South San Francisco

21 (D) STATE: California

22 (E) COUNTRY: USA

23 (F) ZIP: 94080

25 (v) COMPUTER READABLE FORM:

26 (A) MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk

27 (B) COMPUTER: IBM PC compatible

28 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

29 (D) SOFTWARE: WinPatin (Genentech)

31 (vi) CURRENT APPLICATION DATA:

C--> 32 (A) APPLICATION NUMBER: US/09/724,868

C--> 33 (B) FILING DATE: 28-Nov-2000

34 (C) CLASSIFICATION: 424

36 (vii) PRIOR APPLICATION DATA:

W--> 38 (A) APPLICATION NUMBER: US/09/097,171

39 (B) FILING DATE:

W--> 40 (A) APPLICATION NUMBER: 08/874897

41 (B) FILING DATE: 13-JUN-1997

43 (viii) ATTORNEY/AGENT INFORMATION:

44 (A) NAME: Lee, Wendy M.

45 (B) REGISTRATION NUMBER: 40,378

46 (C) REFERENCE/DOCKET NUMBER: P1089R1

48 (ix) TELECOMMUNICATION INFORMATION:

49 (A) TELEPHONE: 650/225-1994

50 (B) TELEFAX: 650/952-9881

51 (2) INFORMATION FOR SEQ ID NO: 1:

53 (i) SEQUENCE CHARACTERISTICS:

54 (A) LENGTH: 241 amino acids

55 (B) TYPE: Amino Acid

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/724,868

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Input Set : N:\Crf3\RULE60\09724868.raw.txt

Output Set: N:\CRF4\06032003\I724868.raw

```

56      (D) TOPOLOGY: Linear
58      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
60  Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
61      1          5          10          15
63  Gly Ser Leu Arg Leu Ser Cys Ala Thr Ser Gly Tyr Thr Phe Thr
64      20          25          30
66  Glu Tyr Thr Met His Trp Met Arg Gln Ala Pro Gly Lys Gly Leu
67      35          40          45
69  Glu Trp Val Ala Gly Ile Asn Pro Lys Asn Gly Gly Thr Ser His
70      50          55          60
72  Asn Gln Arg Phe Met Asp Arg Phe Thr Ile Ser Val Asp Lys Ser
73      65          70          75
75  Thr Ser Thr Ala Tyr Met Gln Met Asn Ser Leu Arg Ala Glu Asp
76      80          85          90
78  Thr Ala Val Tyr Tyr Cys Ala Arg Trp Arg Gly Leu Asn Tyr Gly
79      95          100         105
81  Phe Asp Val Arg Tyr Phe Asp Val Trp Gly Gln Gly Thr Leu Val
82      110         115         120
84  Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
85      125         130         135
87  Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly
88      140         145         150
90  Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp
91      155         160         165
93  Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val
94      170         175         180
96  Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
97      185         190         195
99  Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn
100     200         205         210
102  His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys
103     215         220         225
105  Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
106     230         235         240
108  Leu
109  241
111 (2) INFORMATION FOR SEQ ID NO: 2:
113      (i) SEQUENCE CHARACTERISTICS:
114          (A) LENGTH: 214 amino acids
115          (B) TYPE: Amino Acid
116          (D) TOPOLOGY: Linear
118      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
120  Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
121      1          5          10          15
123  Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Asn
124      20          25          30
126  Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys
127      35          40          45
129  Leu Leu Ile Tyr Tyr Thr Ser Thr Leu His Ser Gly Val Pro Ser

```

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Output Set: N:\CRF4\06032003\I724868.raw

```

130          50          55          60
132 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile
133          65          70          75
135 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln
136          80          85          90
138 Gly Asn Thr Leu Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu
139          95         100         105
141 ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro
142         110         115         120
144 Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu
145         125         130         135
147 Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val
148         140         145         150
150 Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu
151         155         160         165
153 Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr
154         170         175         180
156 Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu
157         185         190         195
159 Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn
160         200         205         210
162 Arg Gly Glu Cys
163         214

```

165 (2) INFORMATION FOR SEQ ID NO: 3:

167 (i) SEQUENCE CHARACTERISTICS:

168 (A) LENGTH: 36 amino acids

169 (B) TYPE: Amino Acid

170 (D) TOPOLOGY: Linear

172 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

```

174 Leu Gly Gly Arg Met Lys Gln Leu Glu Asp Lys Val Glu Glu Leu
175 1          5          10          15
177 Leu Ser Lys Asn Tyr His Leu Glu Asn Glu Val Ala Arg Leu Lys
178          20          25          30
180 Lys Leu Val Gly Glu Arg
181          35          36

```

183 (2) INFORMATION FOR SEQ ID NO: 4:

185 (i) SEQUENCE CHARACTERISTICS:

186 (A) LENGTH: 11 amino acids

187 (B) TYPE: Amino Acid

188 (D) TOPOLOGY: Linear

190 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

```

192 Pro Lys Asn Ser Ser Met Ile Ser Asn Thr Pro
193 1          5          10          11

```

195 (2) INFORMATION FOR SEQ ID NO: 5:

197 (i) SEQUENCE CHARACTERISTICS:

198 (A) LENGTH: 7 amino acids

199 (B) TYPE: Amino Acid

200 (D) TOPOLOGY: Linear

202 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/724,868

DATE: 06/03/2003

TIME: 05:31:40

Input Set : N:\Crf3\RULE60\09724868.raw.txt

Output Set: N:\CRF4\06032003\I724868.raw

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204 His Gln Ser Leu Gly Thr Gln
205   1           5           7
207 (2) INFORMATION FOR SEQ ID NO: 6:
209   (i) SEQUENCE CHARACTERISTICS:
210       (A) LENGTH: 8 amino acids
211       (B) TYPE: Amino Acid
212       (D) TOPOLOGY: Linear
214   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
216 His Gln Asn Leu Ser Asp Gly Lys
217   1           5           8
219 (2) INFORMATION FOR SEQ ID NO: 7:
221   (i) SEQUENCE CHARACTERISTICS:
222       (A) LENGTH: 8 amino acids
223       (B) TYPE: Amino Acid
224       (D) TOPOLOGY: Linear
226   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
228 His Gln Asn Ile Ser Asp Gly Lys
229   1           5           8
231 (2) INFORMATION FOR SEQ ID NO: 8:
233   (i) SEQUENCE CHARACTERISTICS:
234       (A) LENGTH: 8 amino acids
235       (B) TYPE: Amino Acid
236       (D) TOPOLOGY: Linear
238   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
240 Val Ile Ser Ser His Leu Gly Gln
241   1           5           8
243 (2) INFORMATION FOR SEQ ID NO: 9:
245   (i) SEQUENCE CHARACTERISTICS:
246       (A) LENGTH: 2143 base pairs
247       (B) TYPE: Nucleic Acid
248       (C) STRANDEDNESS: Single
249       (D) TOPOLOGY: Linear
251   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
254 GAATTCAACT TCTCCATACT TTGGATAAGG AAATACAGAC ATGAAAAATC 50
256 TCATTGCTGA GTTGTTATTT AAGCTTTGGA GATTATCGTC ACTGCAATGC 100
258 TTCGCAATAT GGCGCAAAAT GACCAACAGC GGTTGATTGA TCAGGTAGAG 150
260 GGGGCGCTGT ACGAGGTAAG GCCCGATGCC AGCATTCCTG ACGACGATAC 200
262 GGAGCTGCTG CGCGATTACG TAAAGAAGTT ATTGAAGCAT CCTCGTCAGT 250
264 AAAAAGTTAA TCTTTTCAAC AGCTGTCATA AAGTTGTCAC GGCCGAGACT 300
266 TATAGTCGCT TTGTTTTTAT TTTTAAATGT ATTTGTAACT AGAATTTCGAG 350
268 CTCGCCGGGG ATCCTCTAGA GGTGAGGTG ATTTTATGAA AAAGAATATC 400
270 GCATTTCTTC TTGCATCTAT GTTCGTTTTT TCTATTGCTA CAAACGCGTA 450
272 CGCTGATATC CAGATGACCC AGTCCCCGAG CTCCTGTGCC GCCTCTGTGG 500
274 GCGATAGGGT CACCATCACC TGTCGTGCCA GTCAGGACAT CAACAATTAT 550
276 CTGAAGTGGT ATCAACAGAA ACCAGGAAAA GCTCCGAAAC TACTGATTTA 600
278 CTATACCTCC ACCCTCCACT CTGGAGTCCC TTCTCGCTTC TCTGGTTCGTG 650
280 GTTCTGGGAC GGATTACACT CTGACCATCA GCAGTCTGCA ACCGGAGGAC 700
282 TTCGCAACTT ATTACTGTCA GCAAGGTAAT ACTCTGCCGC CGACGTTCCG 750
284 ACAGGGCACG AAGGTGGAGA TCAAACGAAC TGTGGCTGCA CCATCTGTCT 800

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Input Set : N:\Crif3\RULE60\09724868.raw.txt

Output Set: N:\CRF4\06032003\I724868.raw

```

286 TCATCTTCCC GCCATCTGAT GAGCAGTTGA AATCTGGAAC TGCCTCTGTT 850
288 GTGTGCCTGC TGAATAACTT CTATCCCAGA GAGGCCAAAG TACAGTGGAA 900
290 GGTGGATAAC GCCCTCCAAT CGGGTAACTC CCAGGAGAGT GTCACAGAGC 950
292 AGGACAGCAA GGACAGCACC TACAGCCTCA GCAGCACCCT GACGCTGAGC 1000
294 AAAGCAGACT ACGAGAAACA CAAAGTCTAC GCCTGCGAAG TCACCCATCA 1050
296 GGGCCTGAGC TCGCCCGTCA CAAAGAGCTT CAACAGGGGA GAGTGTTAAG 1100
298 CTGATCCTCT ACGCCGGACG CATCGTGGCG CTAGTACGCA AGTTCACGTA 1150
300 AAAACGGTAT CTAGAGGTTG AGGTGATTTT ATGAAAAAGA ATATCGCATT 1200
302 TCTTCTTGCA TCTATGTTCT TTTTCTCTAT TGCTACAAAC GCGTACGCTG 1250
304 AGGTTTCACT GGTGGAGTCT GGCAGTGGCC TGGTGCAGCC AGGGGGCTCA 1300
306 CTCCGTTTGT CCTGTGCAAC TTCTGGCTAC ACCTTTACCG AATACACTAT 1350
308 GCACTGGATG CGTCAGGCCC CGGGTAAGGG CCTGGAATGG GTTGCAGGGA 1400
310 TTAATCCTAA AAACGGTGGT ACCAGCCACA ACCAGAGGTT CATGGACCGT 1450
312 TTCACTATAA GCGTAGATAA ATCCACCAGT ACAGCCTACA TGCAAATGAA 1500
314 CAGCCTGCGT GCTGAGGACA CTGCCGTCTA TTATTGTGCT AGATGGCGAG 1550
316 GCCTGAACTA CCGCTTTGAC GTCCGTTATT TTGACGTCTG GGGTCAAGGA 1600
318 ACCCTGGTCA CCGTCTCCTC GGCCTCCACC AAGGGCCCAT CGGTCTTCCC 1650
320 CCTGGCACCC TCCTCCAAGA GCACCTCTGG GGGCACAGCG GCCCTGGGCT 1700
322 GCCTGGTCAA GGACTACTTC CCCGAACCGG TGACGGTGTG GTGGAAGTCA 1750
324 GCGGCCCTGA CCAGCGGCGT GCACACCTTC CCGGCTGTCC TACAGTCCTC 1800
326 AGGACTCTAC TCCCTCAGCA ACGTGTGAC CGTGCCCTCC AGCAGCTTGG 1850
328 GCACCCAGAC CTACATCTGC AACGTGAATC ACAAGCCCAG CAACACCAAG 1900
330 GTCGACAAGA AAGTTGAGCC CAAATCTTGT GACAAAACCT ACACATGCCC 1950
332 GCCGTGCCCA GCACCAGAAC TGCTGGGCGG CCGCATGAAA CAGCTAGAGG 2000
334 ACAAGGTCGA AGAGCTACTC TCCAAGAACT ACCACCTAGA GAATGAAGTG 2050
336 GCAAGACTCA AAAAGCTTGT CGGGGAGCGC TAAGCATGCG ACGGCCCTAG 2100
338 AGTCCCTAAC GCTCGGTTGC CGCCGGGCGT TTTTATTGT TAA 2143

```

(2) INFORMATION FOR SEQ ID NO: 10:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 237 amino acids

(B) TYPE: Amino Acid

(D) TOPOLOGY: Linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

```

349 Met Lys Lys Asn Ile Ala Phe Leu Leu Ala Ser Met Phe Val Phe
350 -23 -20 -15 -10
352 Ser Ile Ala Thr Asn Ala Tyr Ala Asp Ile Gln Met Thr Gln Ser
353 -5 1 5
355 Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr
356 10 15 20
358 Cys Arg Ala Ser Gln Asp Ile Asn Asn Tyr Leu Asn Trp Tyr Gln
359 25 30 35
361 Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Tyr Thr Ser
362 40 45 50
364 Thr Leu His Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser
365 55 60 65
367 Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp
368 70 75 80
370 Phe Ala Thr Tyr Tyr Cys Gln Gln Gly Asn Thr Leu Pro Pro Thr
371 85 90 95

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/724,868

DATE: 06/03/2003

TIME: 08:31:41

Input Set : N:\Crf3\RULE60\09724868.raw.txt

Output Set: N:\CRF4\06032003\I724868.raw

L:32 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:33 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:40 M:238 W: Alpha Fields not Ordered, Reordered [(A) APPLICATION NUMBER:] of (1) (vii)